

FIG.1C

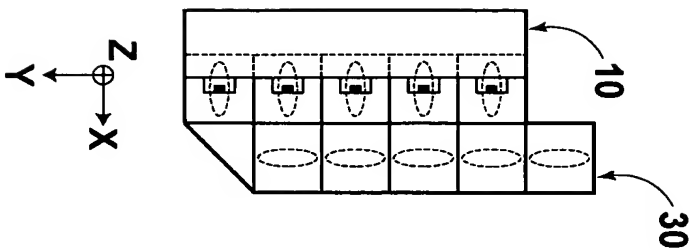


FIG.1A

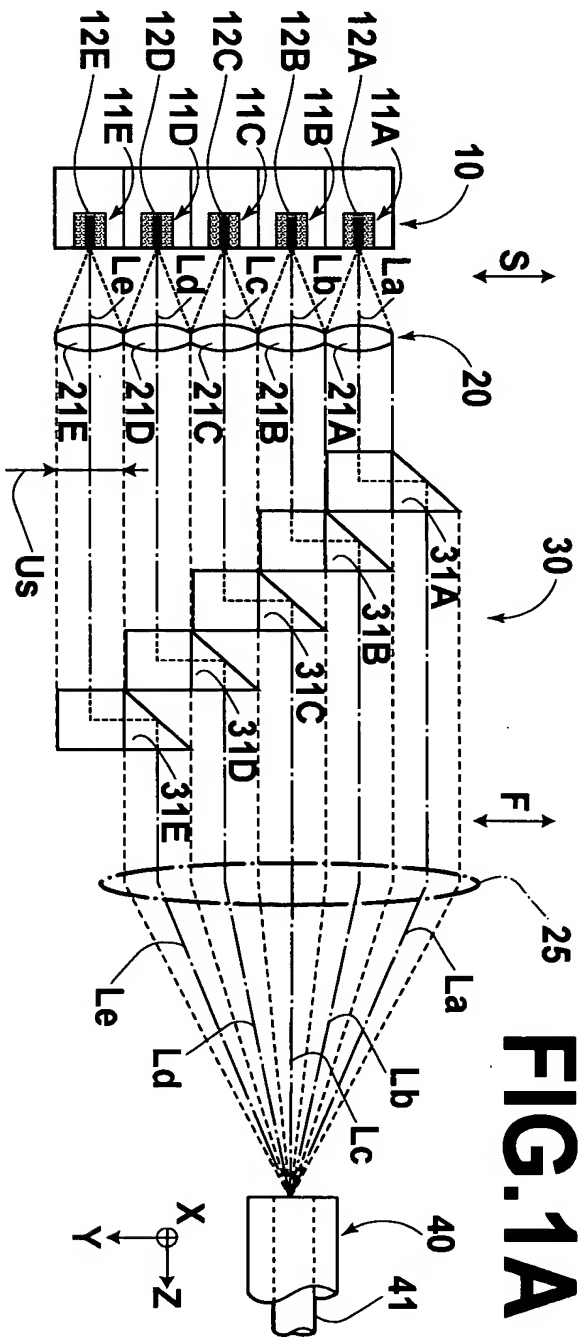


FIG.1B

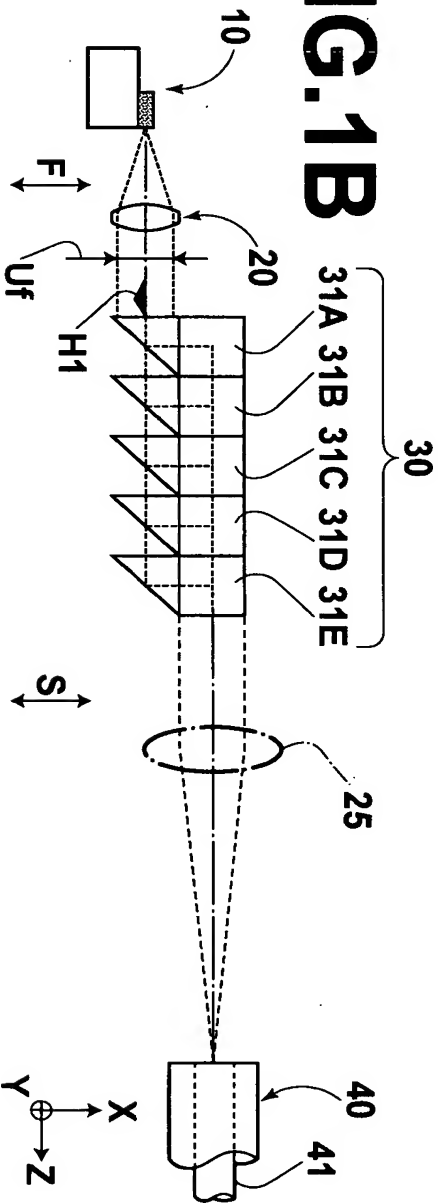


FIG.2

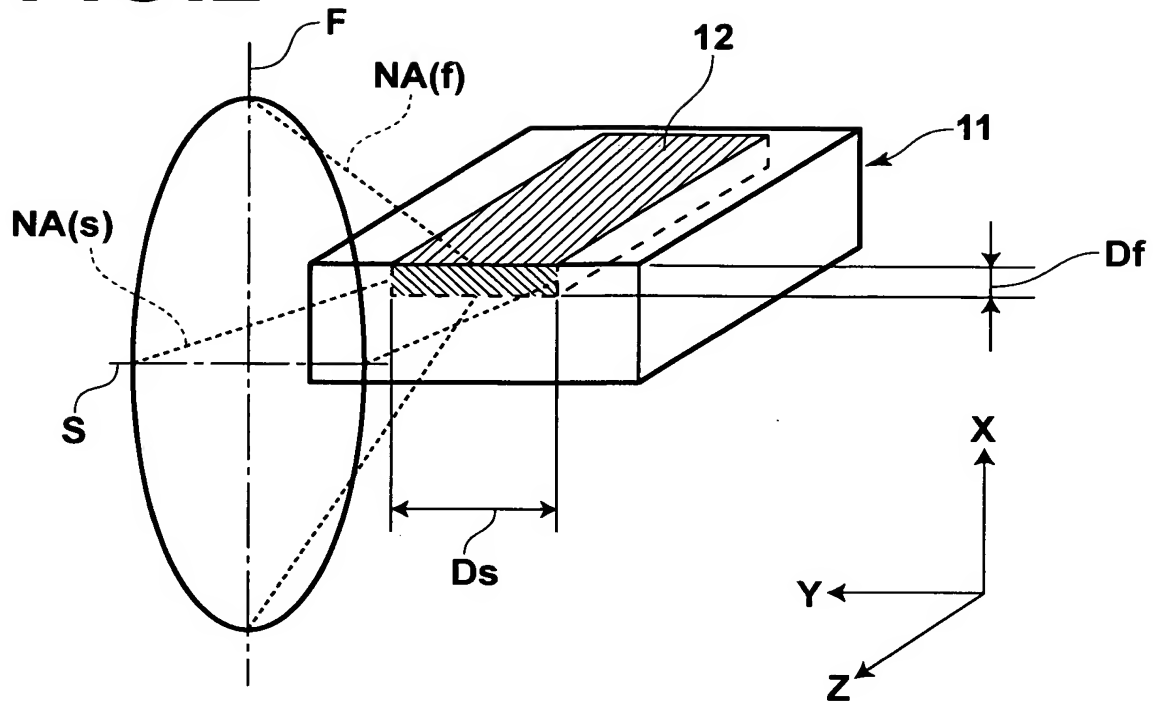


FIG.3

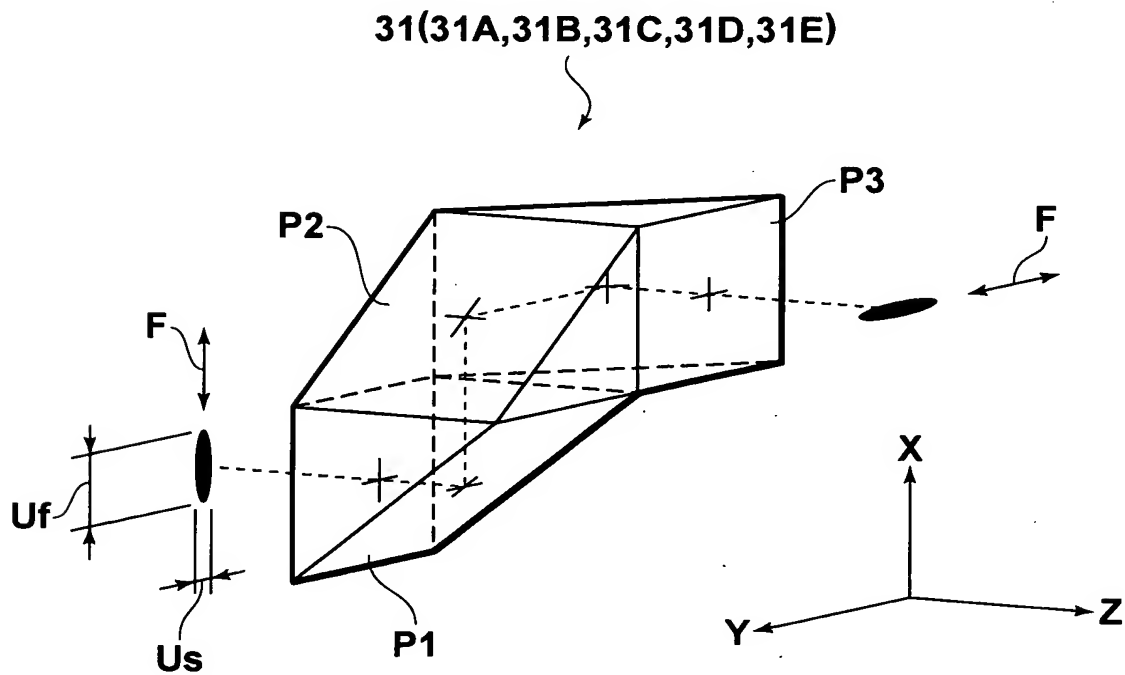


FIG.4A

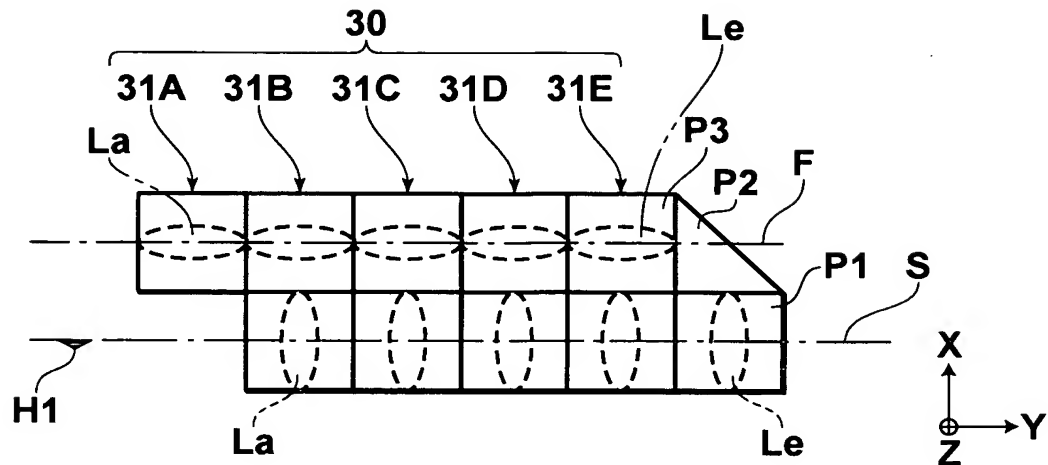
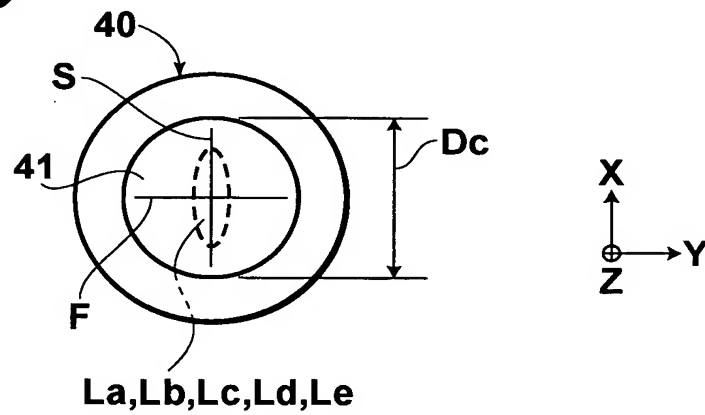


FIG.4B



⊙ INDICATE OPTICAL PATHS PERPENDICULAR TO THE DRAWING SHEET

FIG.5A

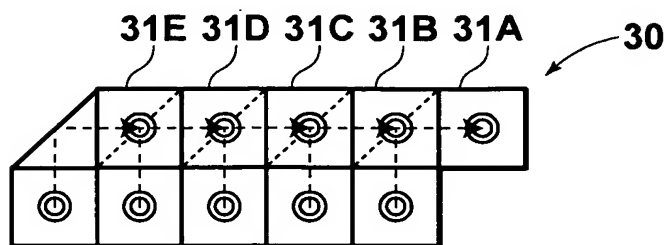
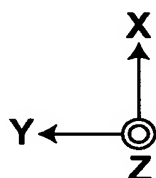


FIG.5B

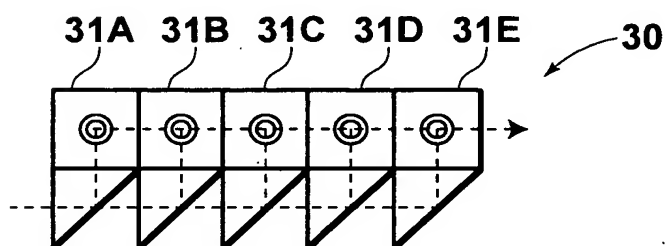
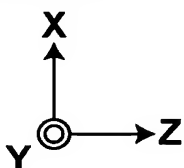


FIG.5C

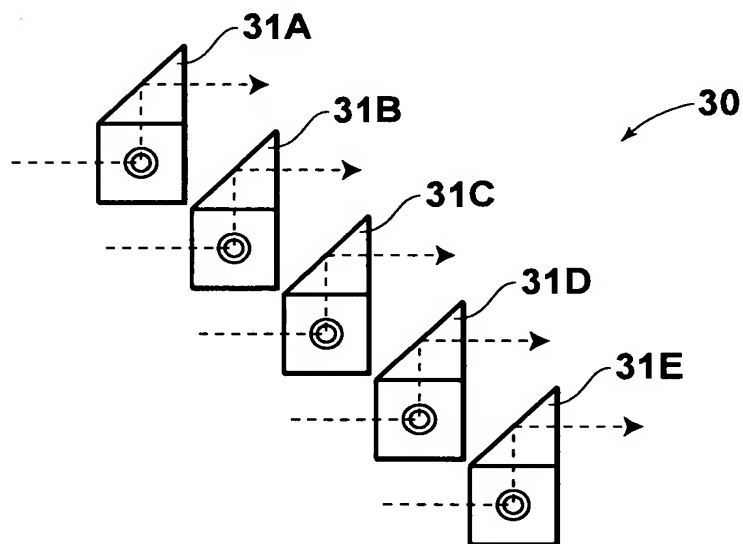
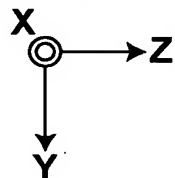


FIG. 6A

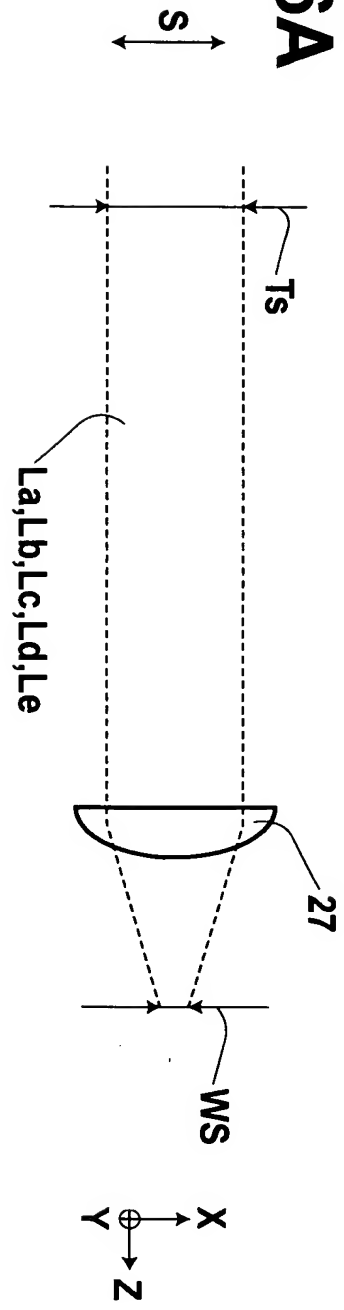


FIG. 6B

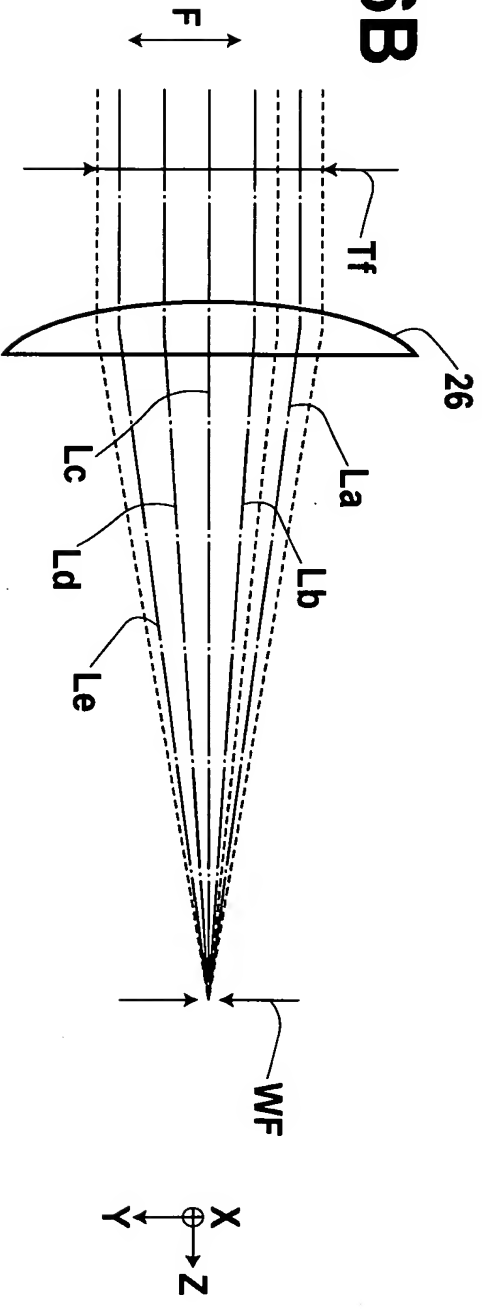


FIG. 7

FIG. 7 is a schematic diagram of a multi-layered optical device. At the top, a light source 10 emits five parallel light beams labeled La, Lb, Lc, Ld, and Le, which pass through a series of five overlapping elliptical lenses 20. Below the lenses is a series of five rectangular blocks 55A through 55E, each aligned with one of the light beams. These blocks are part of a larger structure 50 that consists of five stacked rectangular layers 51A through 51E. The light beams pass through these layers and are then focused by a series of five curved lenses 56A through 56E, which are also labeled La through Le. The light beams converge at a point 40, which is part of a cylindrical component 41. A coordinate system with X, Y, and Z axes is shown in the upper right corner.

FIG. 8

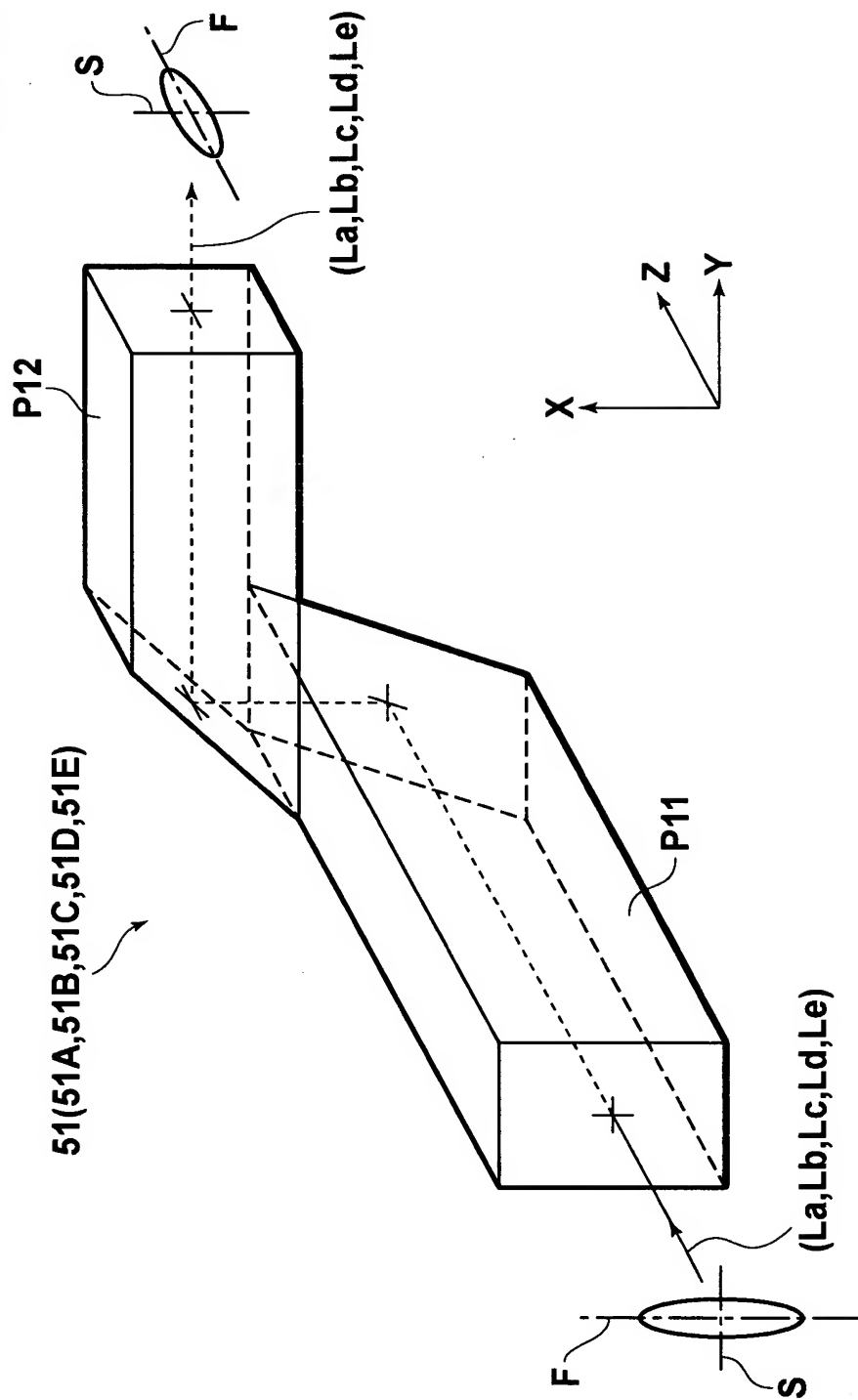


FIG.9A

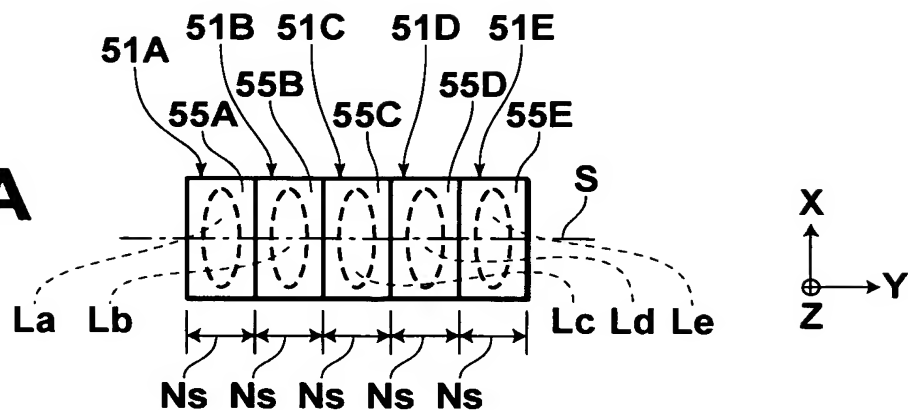


FIG.9B

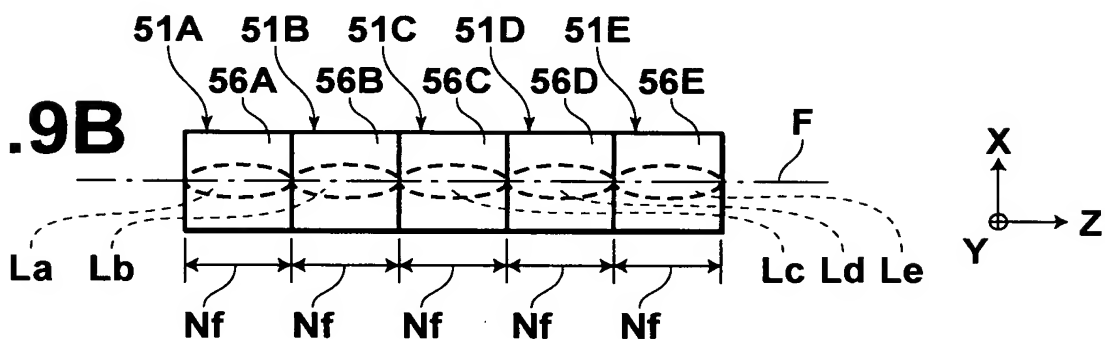


FIG.9C

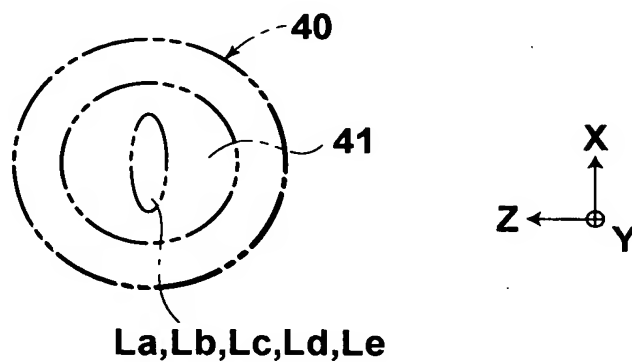


FIG.10A

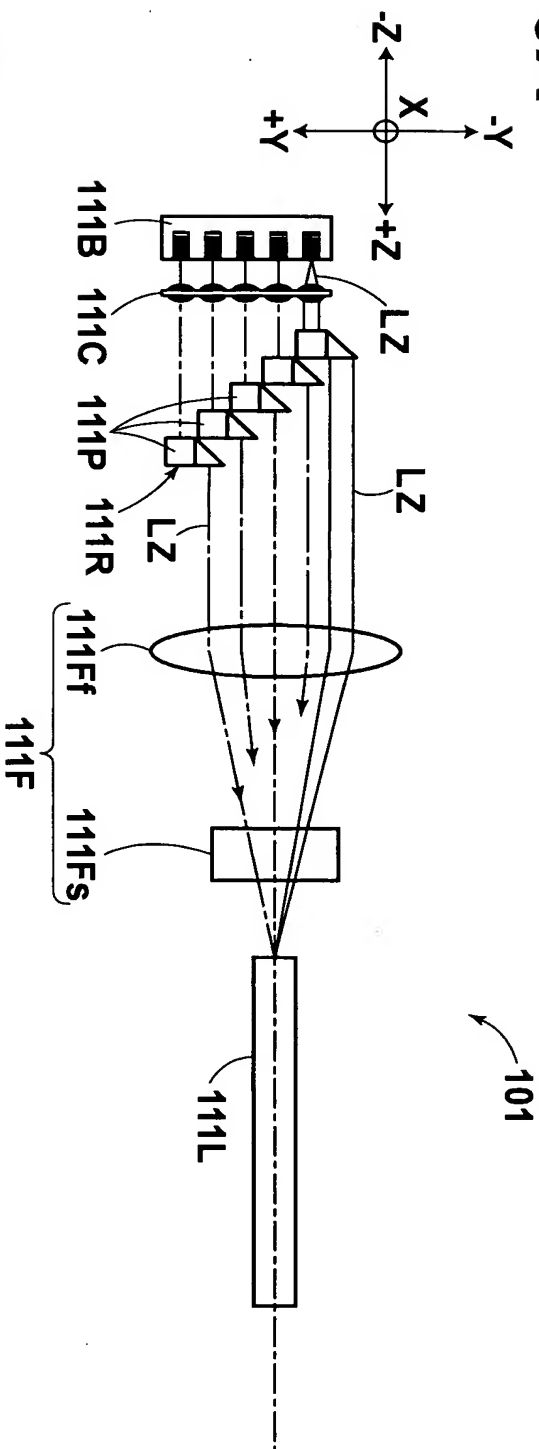


FIG.10B

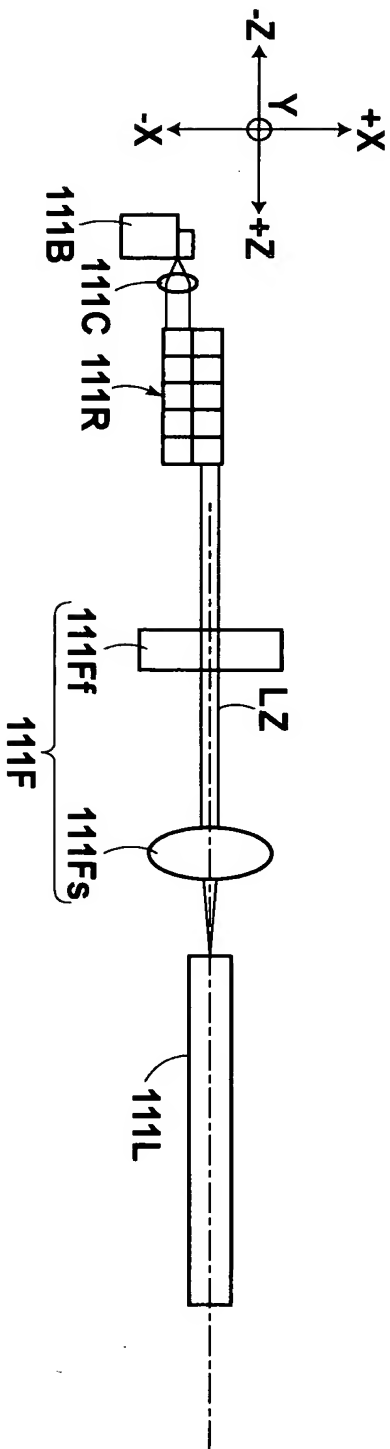


FIG.11

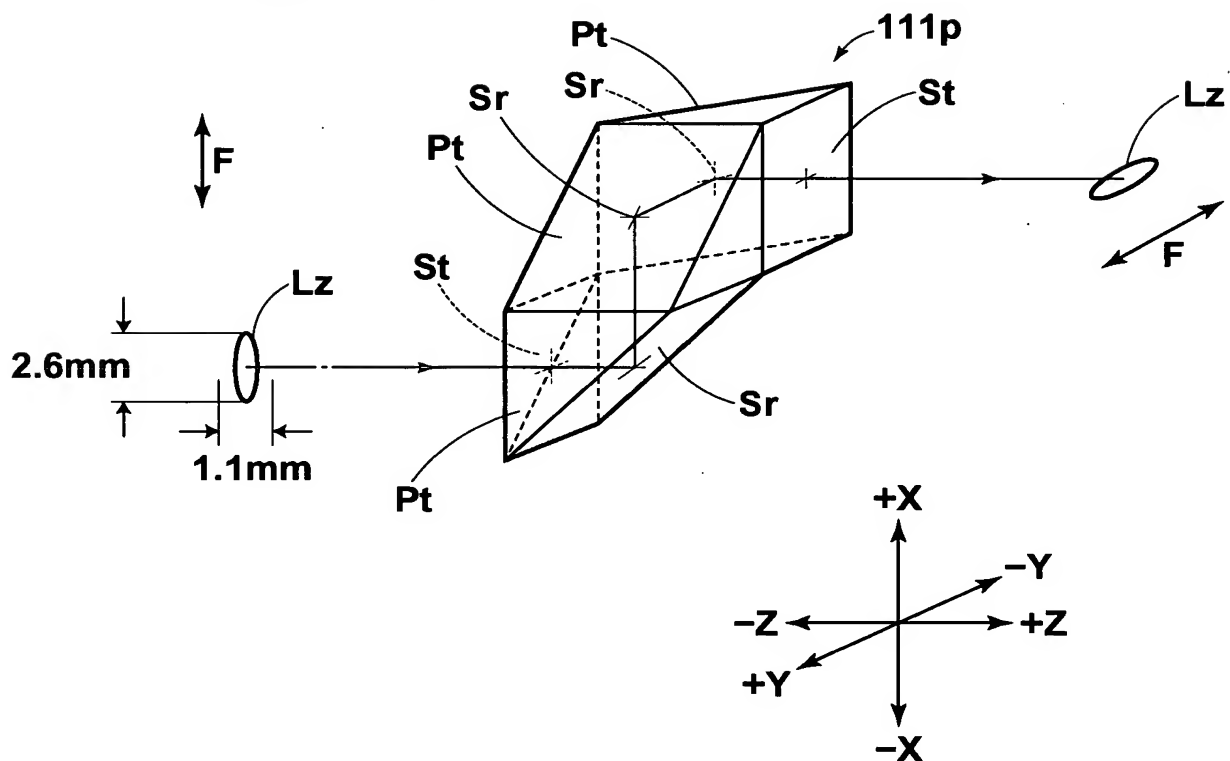


FIG. 12A

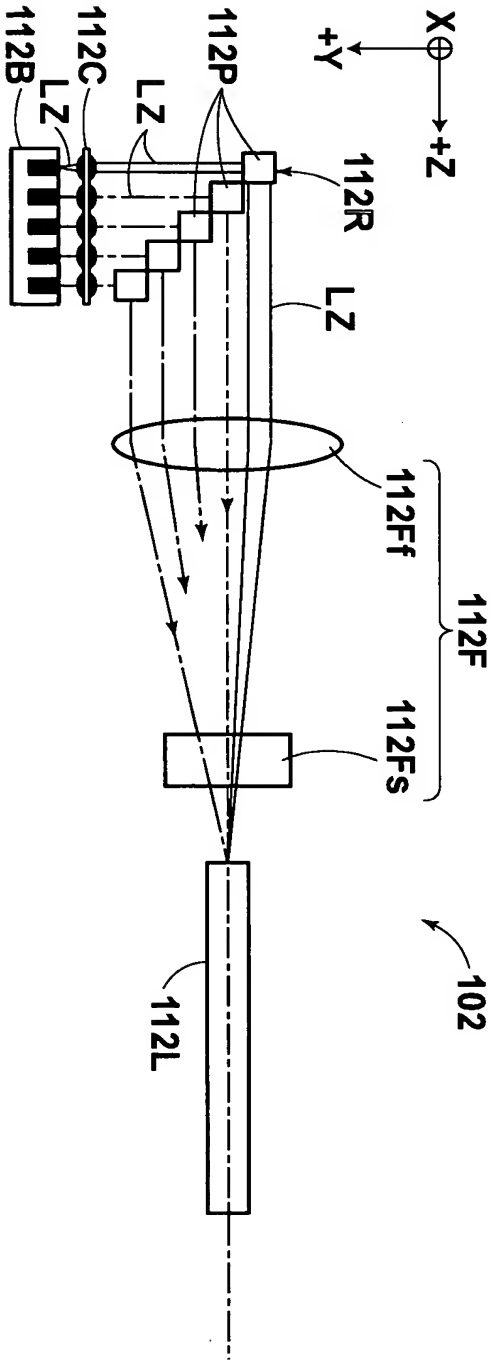


FIG. 12B

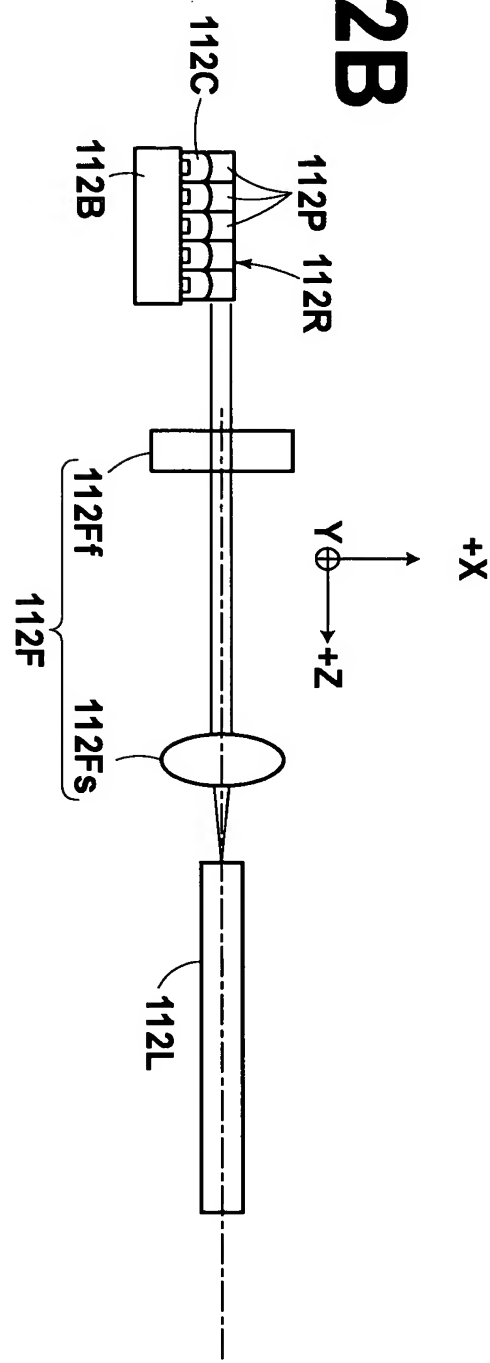


FIG.13

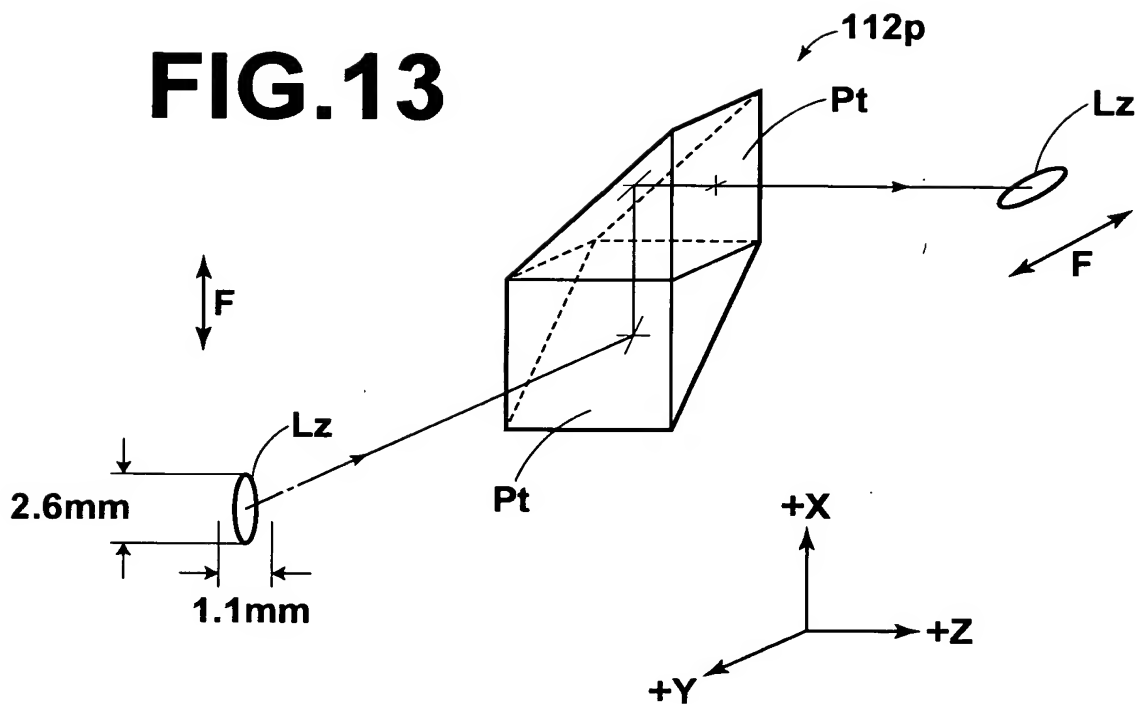


FIG.14A

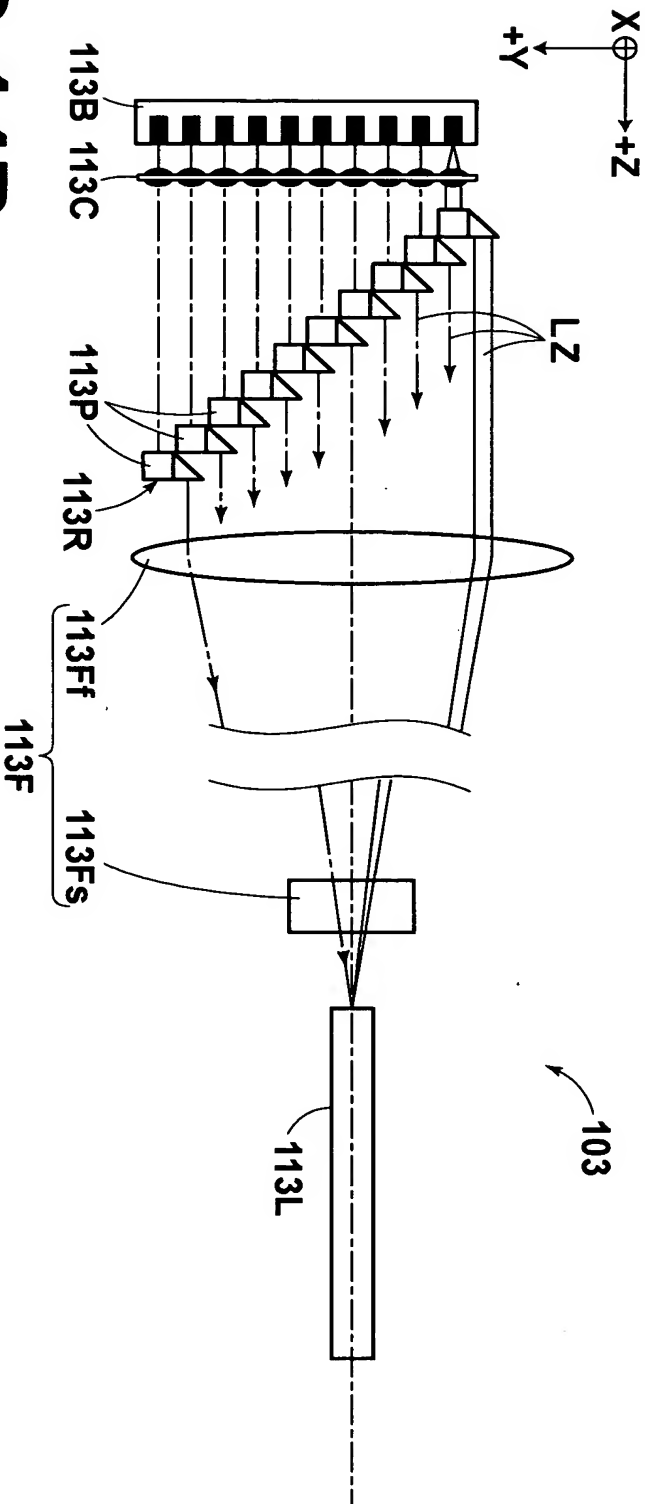


FIG.14B

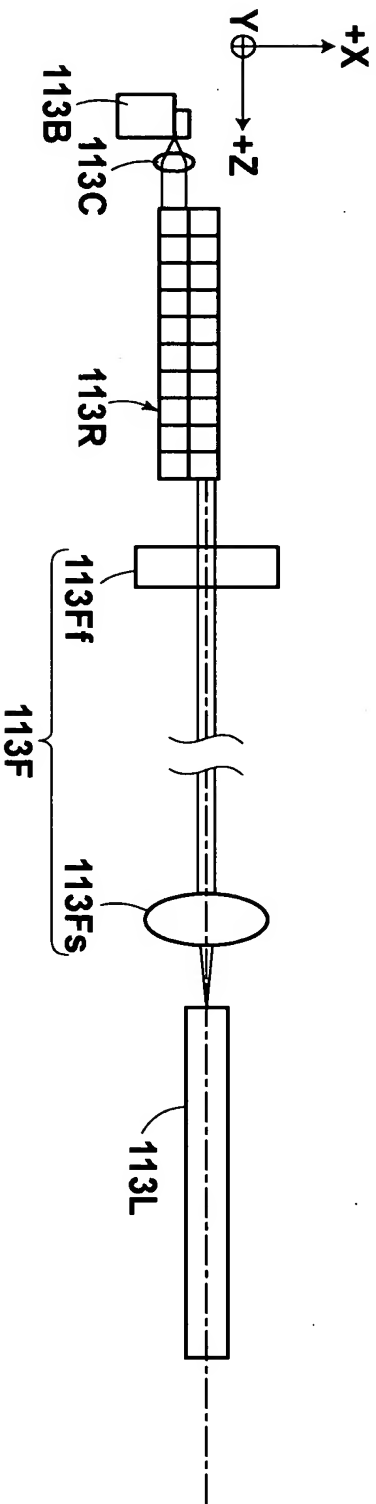


FIG. 15A

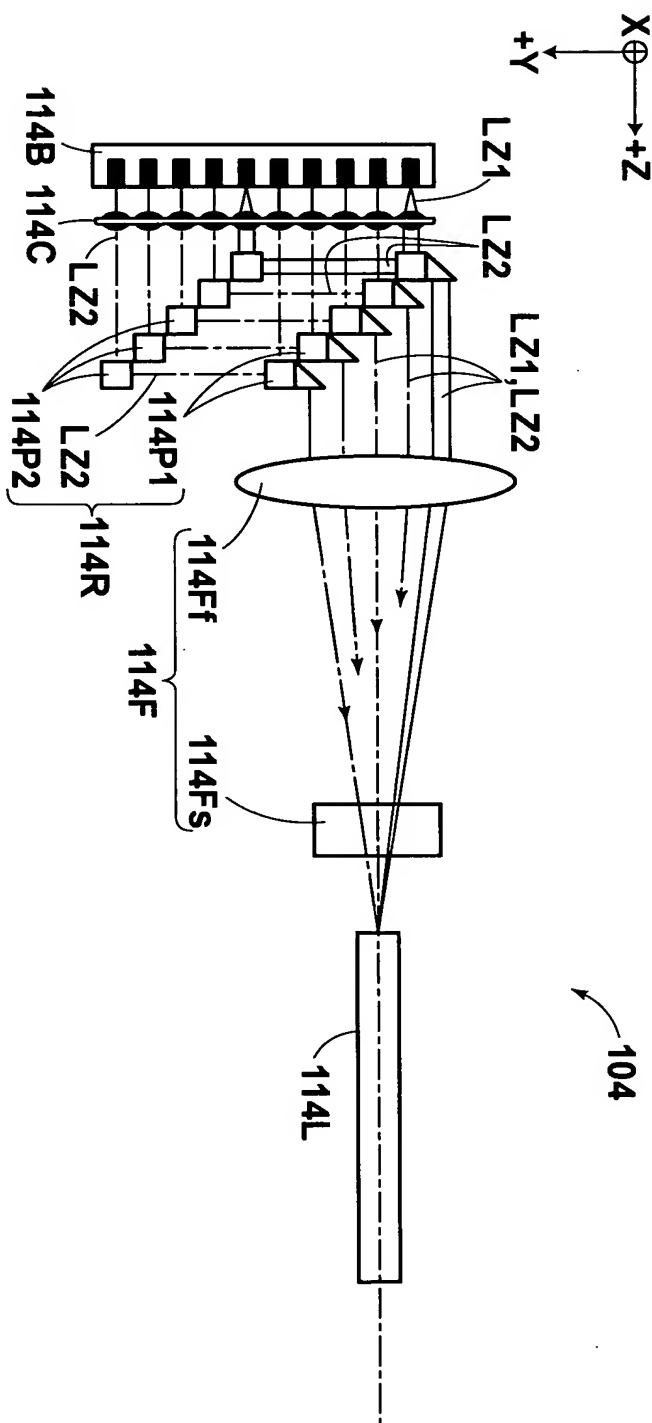


FIG. 15B

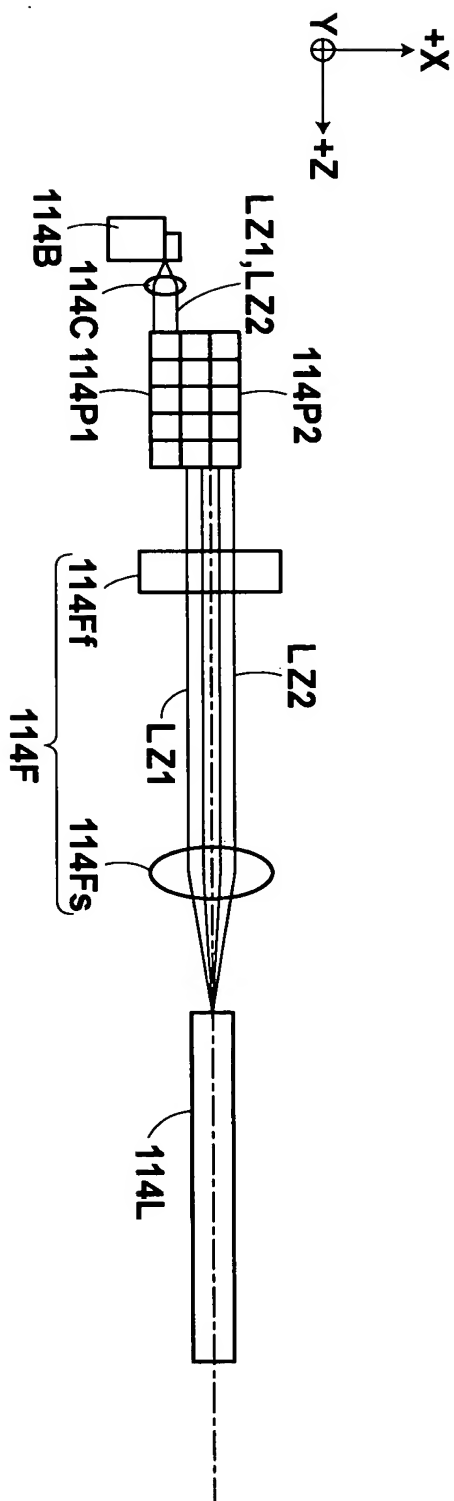


FIG.16

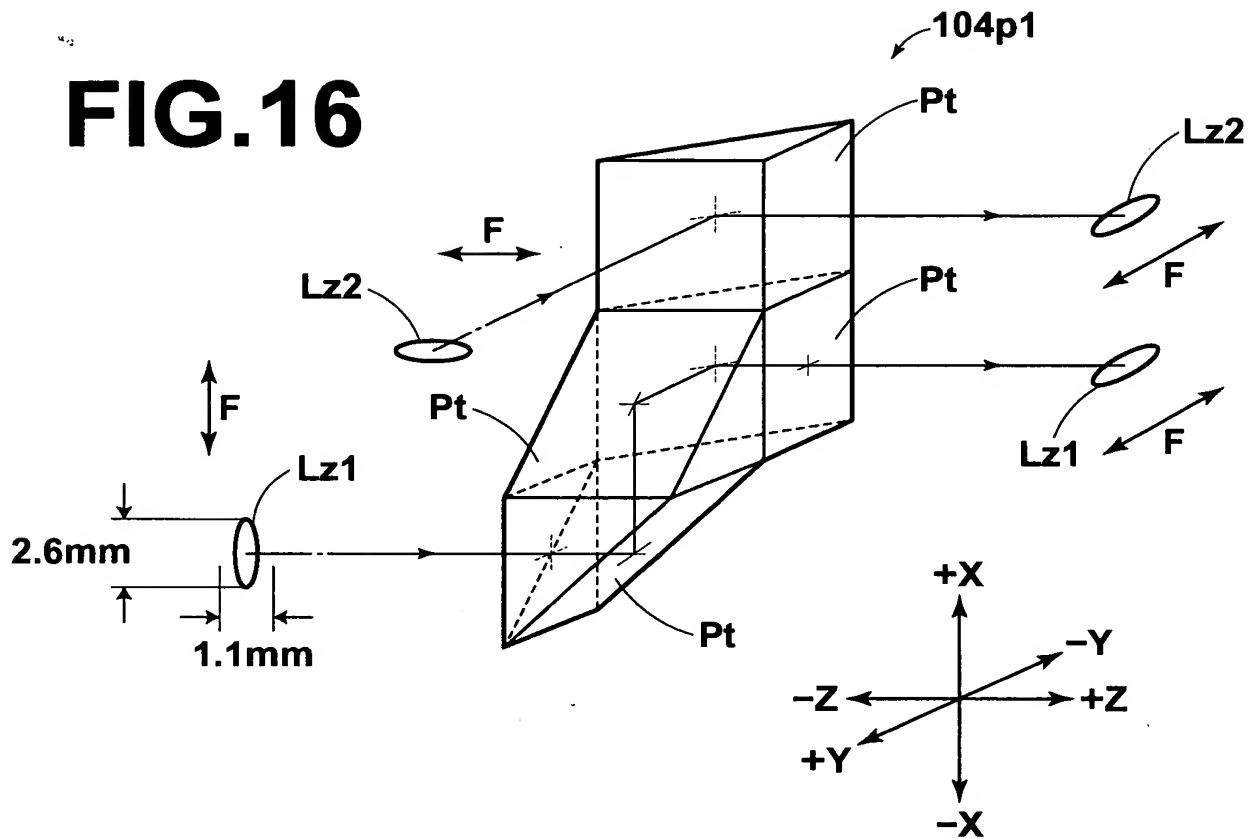


FIG.17

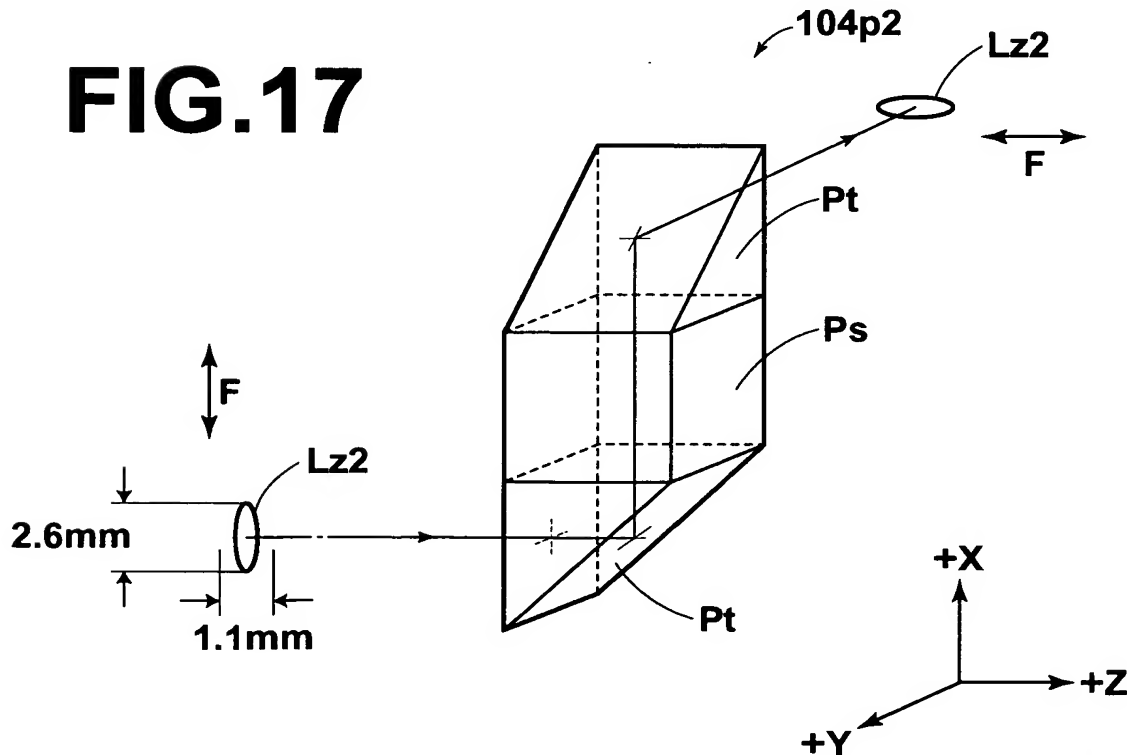


FIG.18A

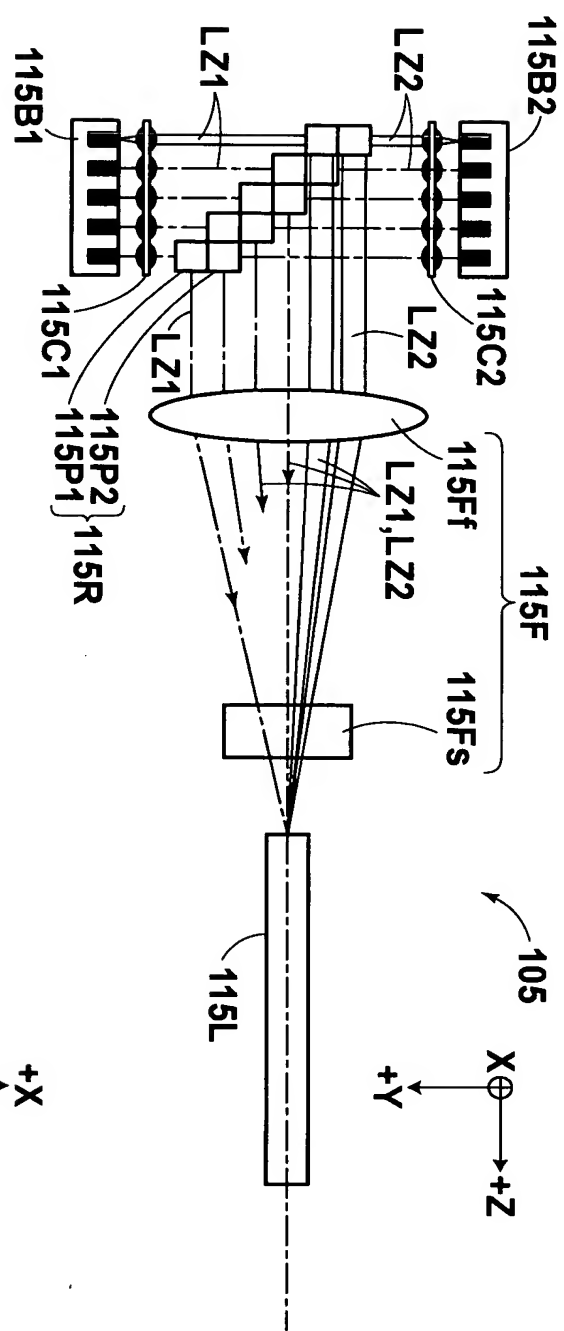


FIG.18B

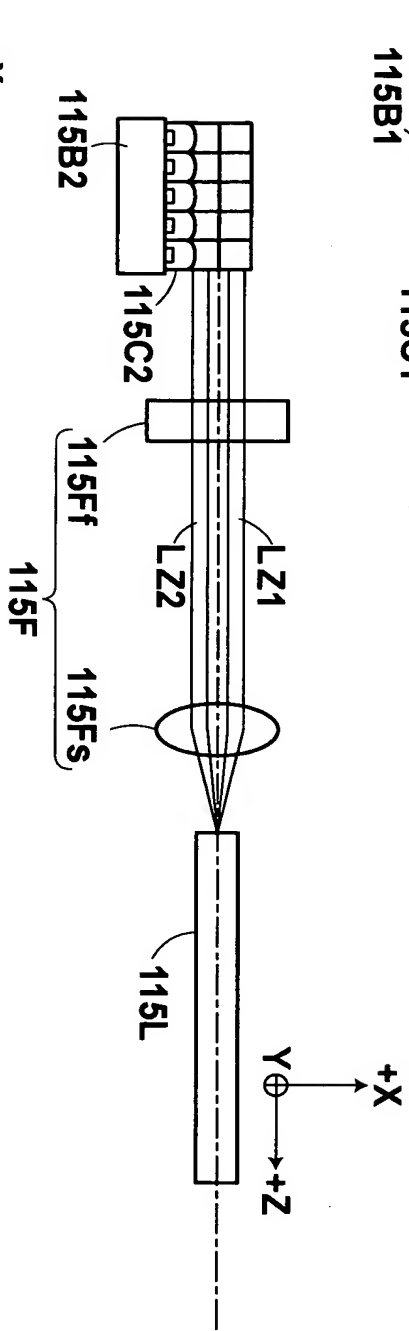


FIG.18C

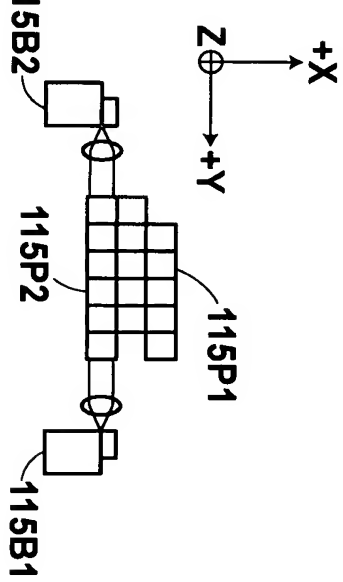


FIG.19

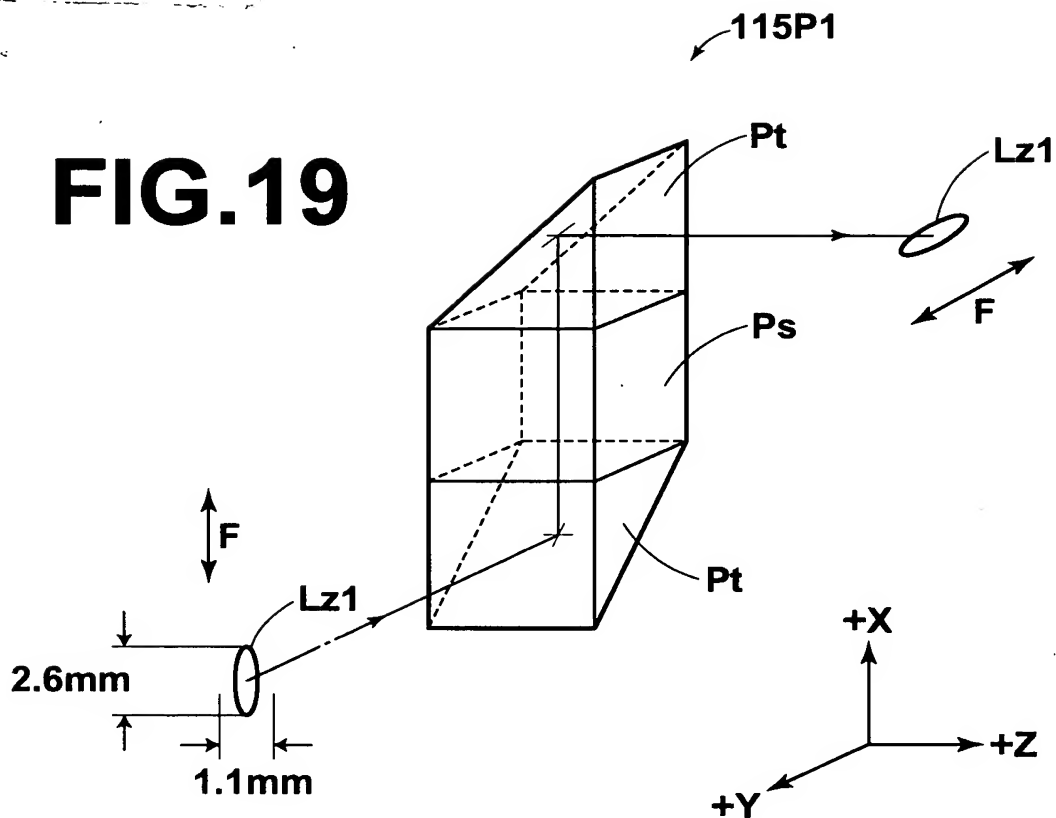


FIG.20

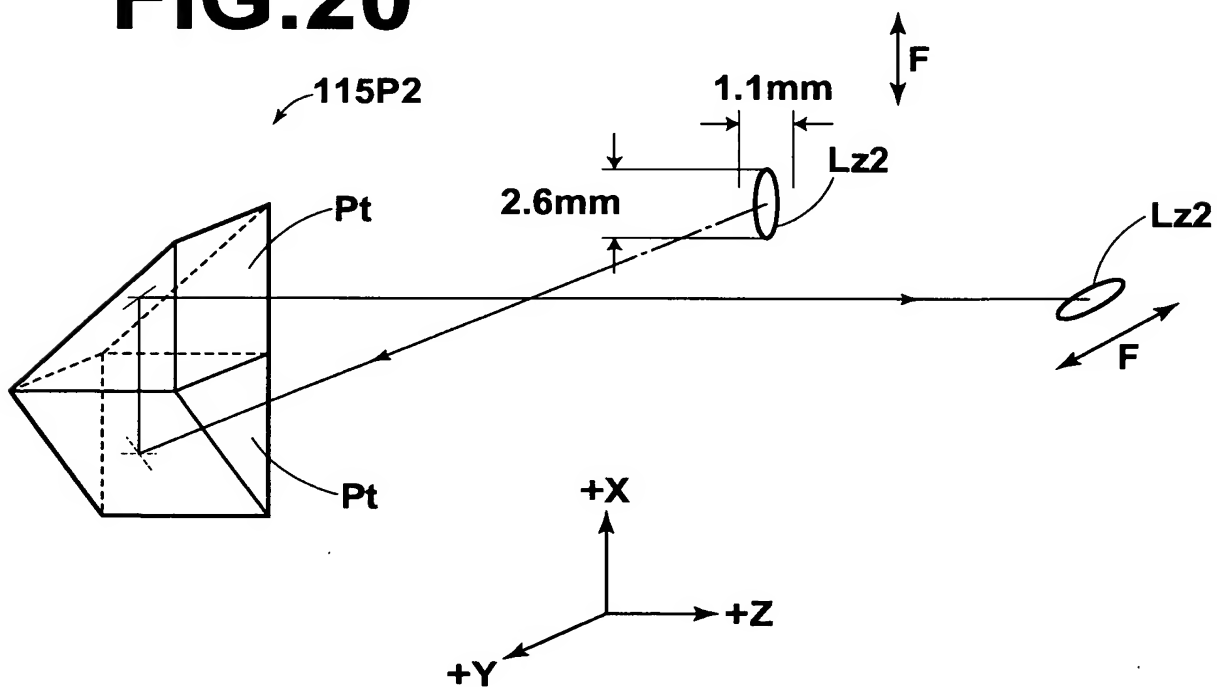


FIG. 21A

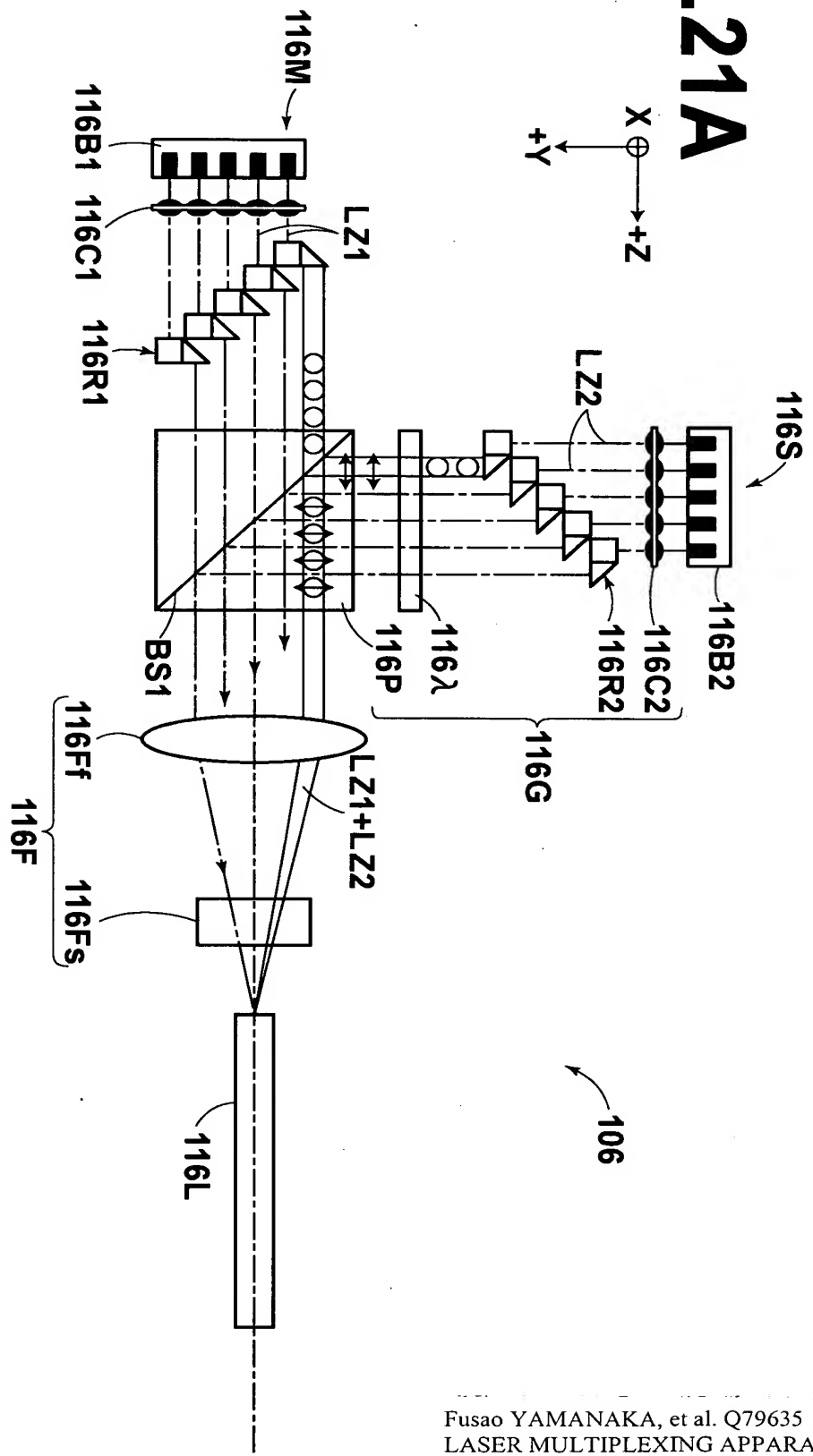


FIG. 21B

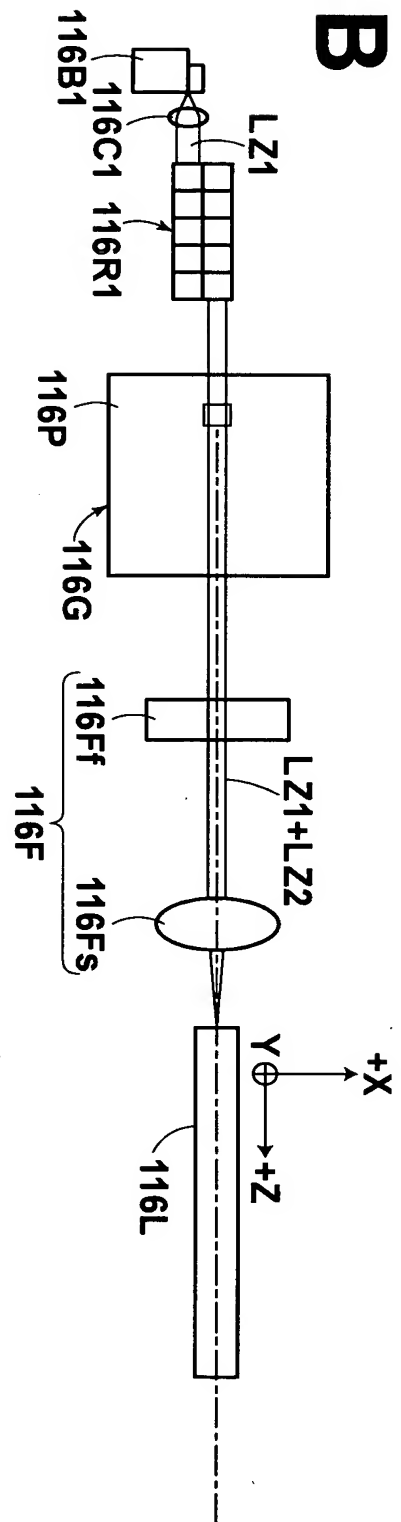


FIG.22A

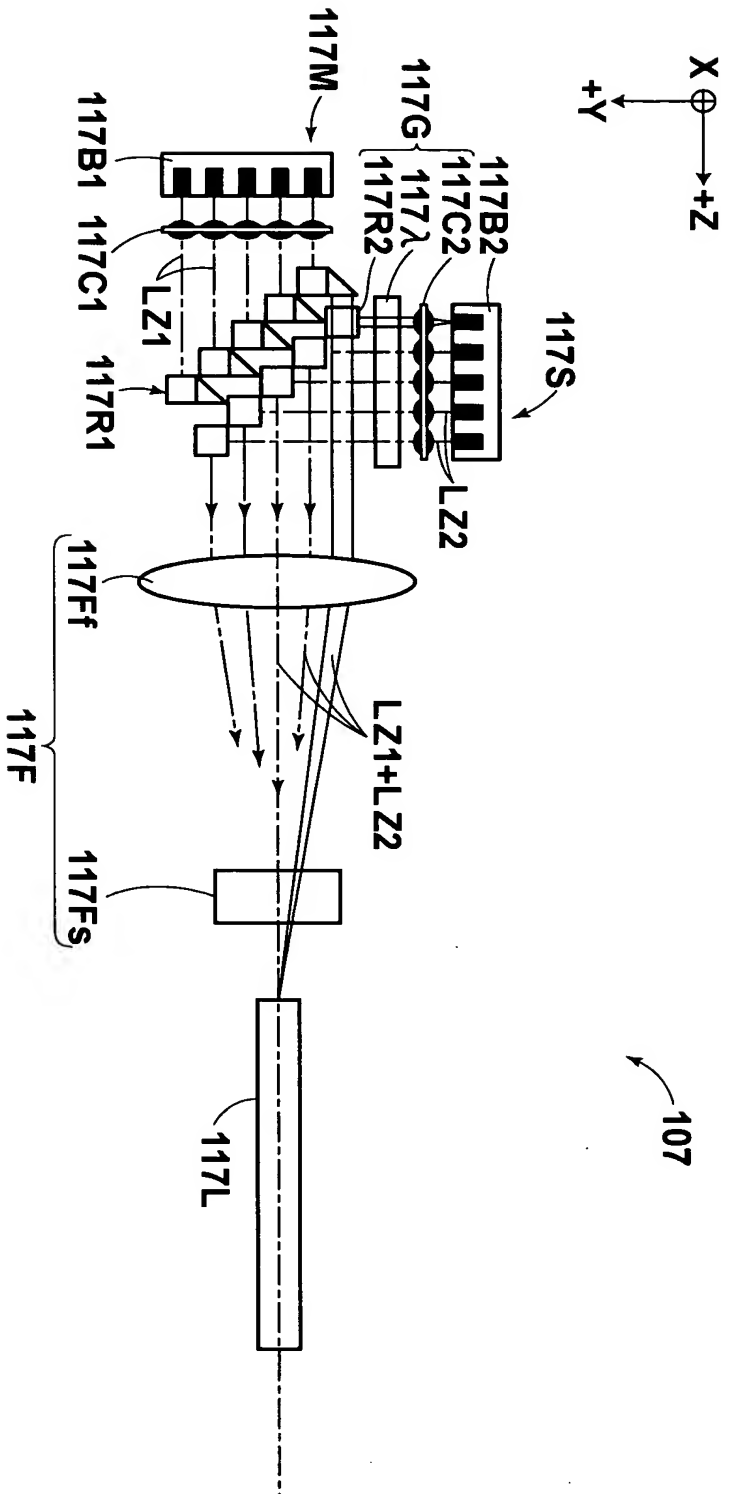


FIG.22B

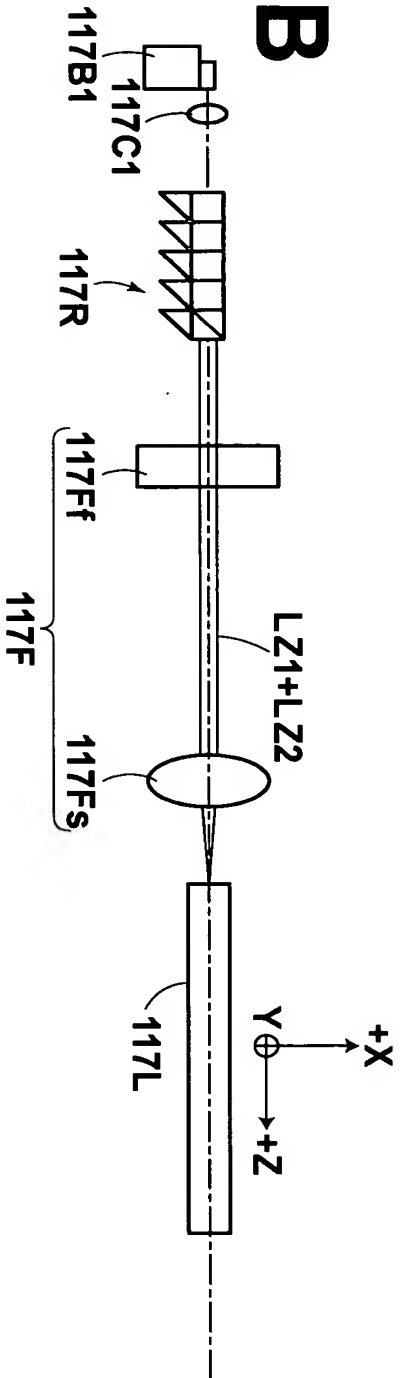


FIG. 23A

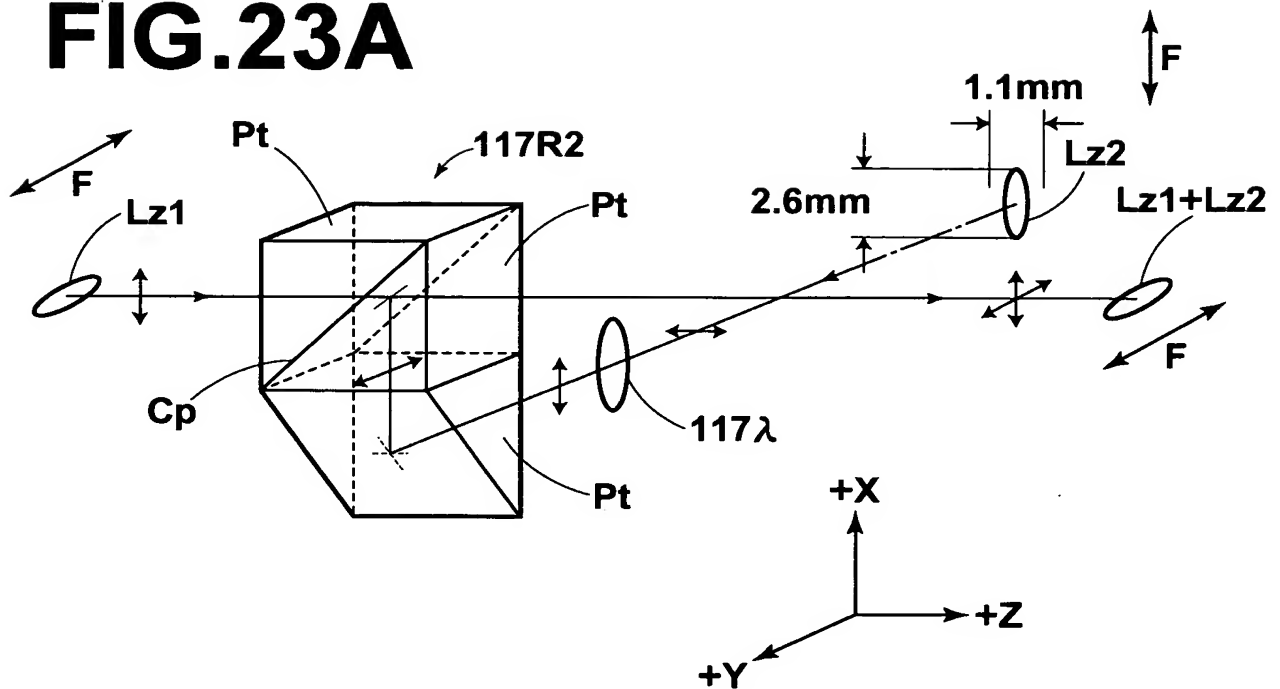


FIG. 23B

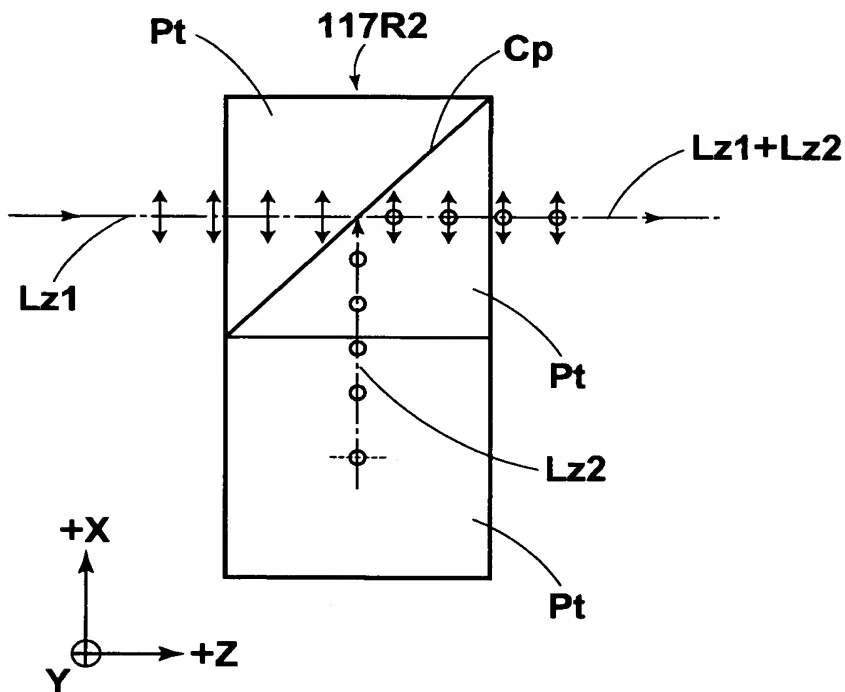


FIG.24A

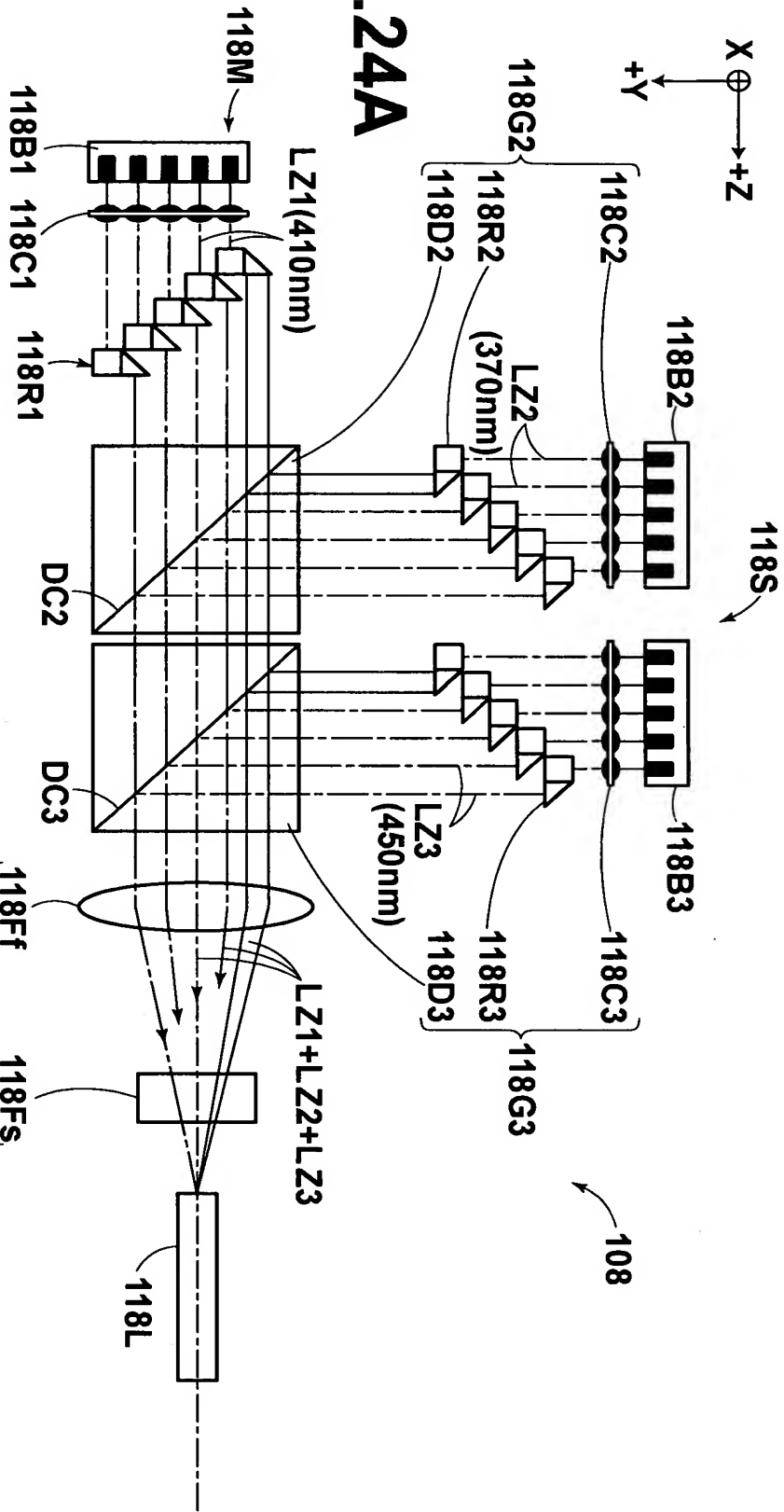
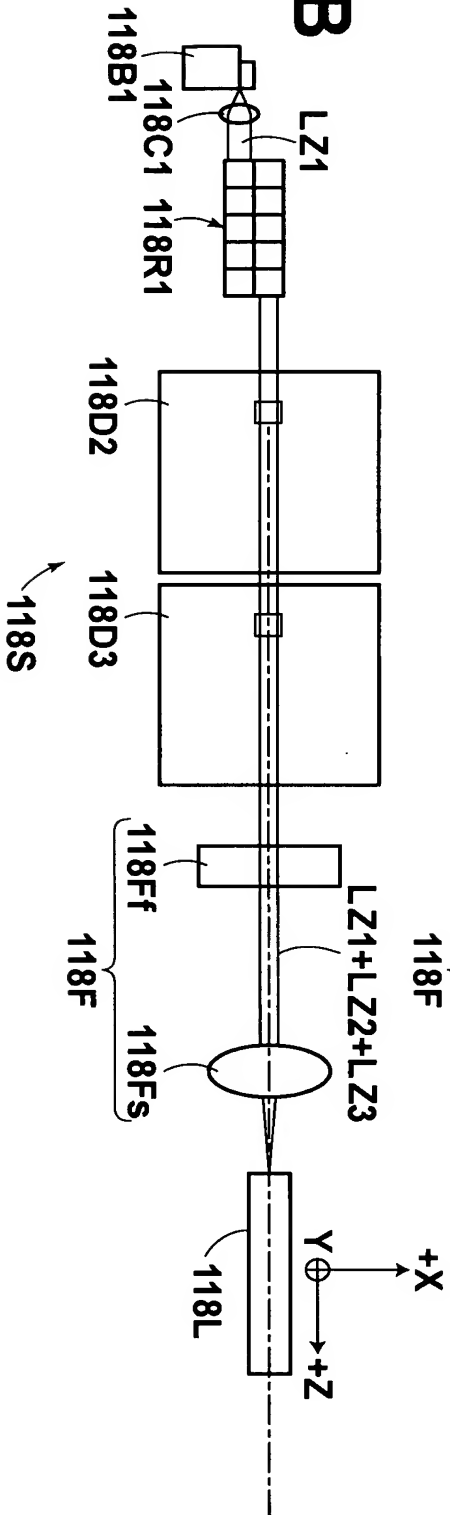


FIG.24B



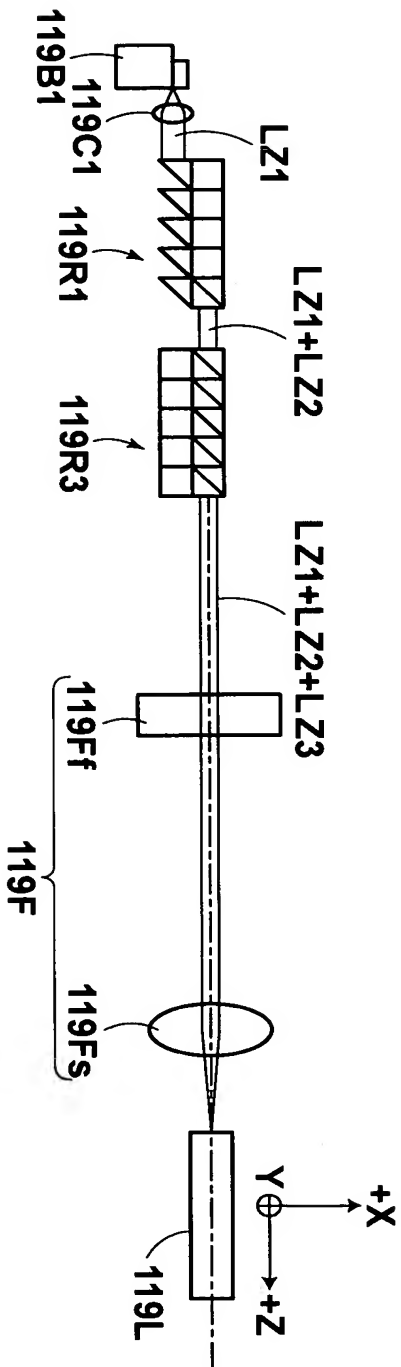


FIG.26A

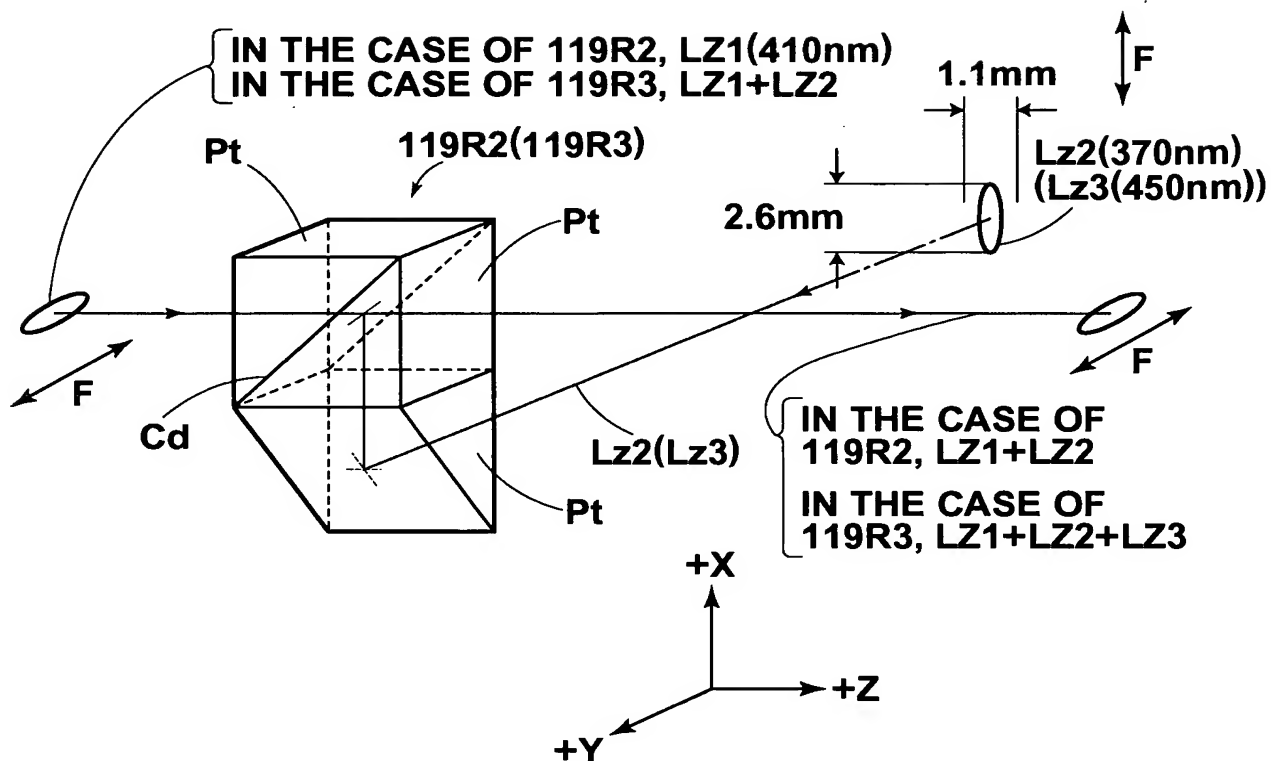


FIG.26B

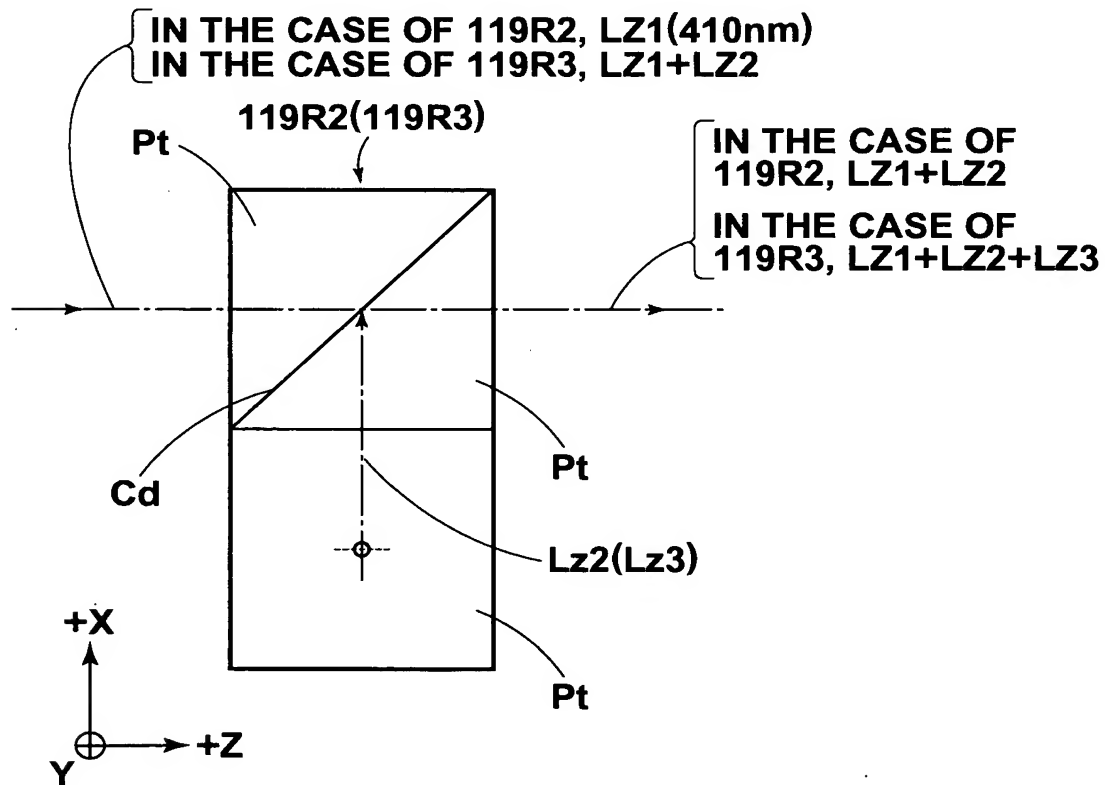


FIG.27A

Ex 1,2,6,7,8,9

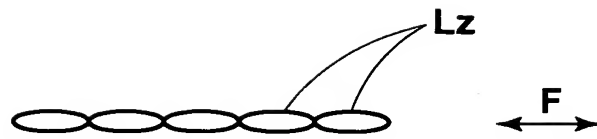


FIG.27B

Ex 3



FIG.27C

Ex 4

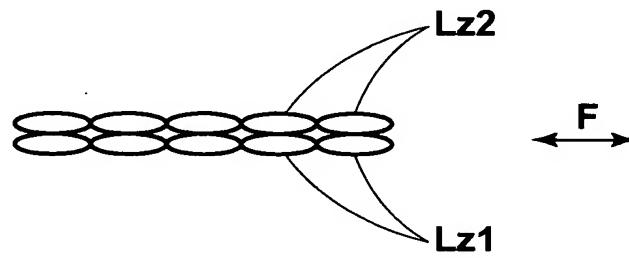
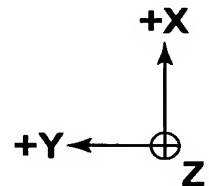
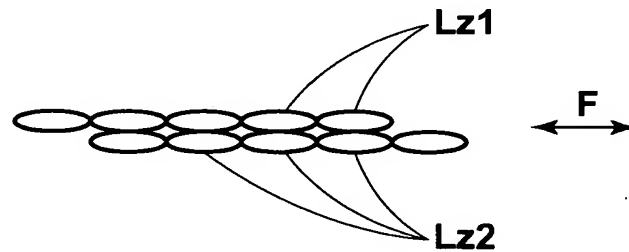


FIG.27D

Ex 5



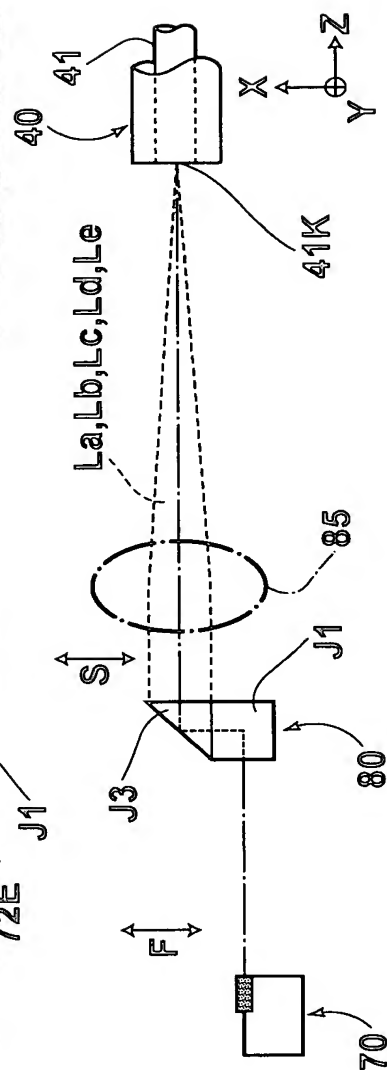


FIG. 29A

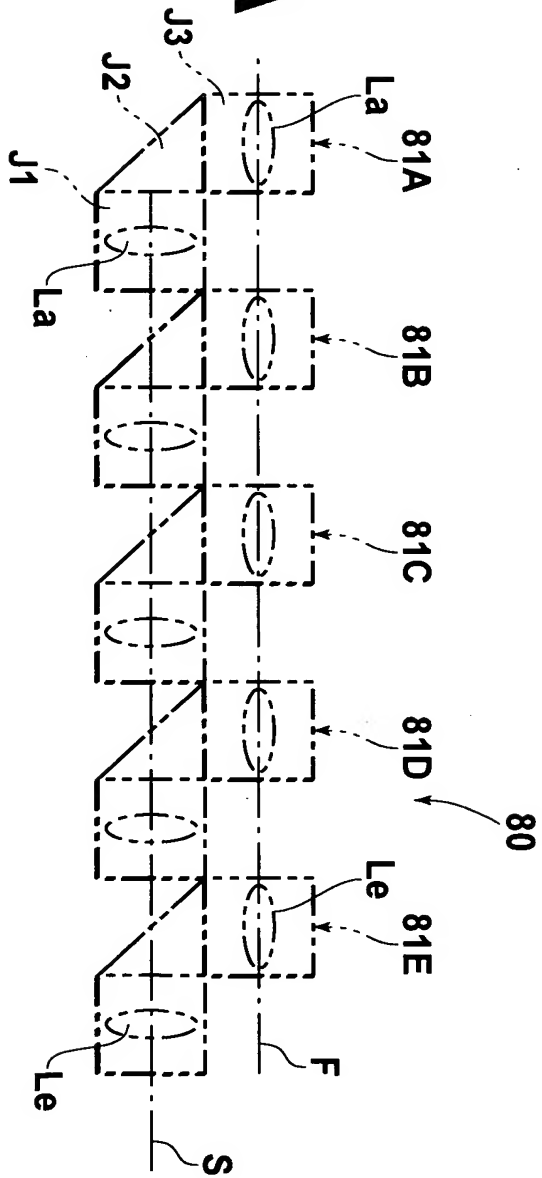


FIG. 29B

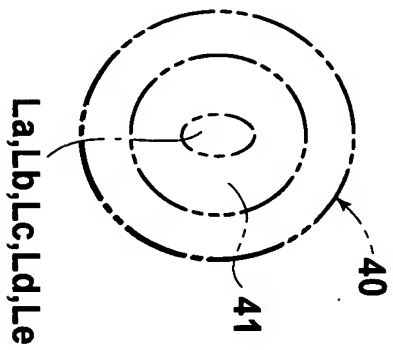


FIG.30

